

US-PAT-NO: 6643525

DOCUMENT-IDENTIFIER: US 6643525 B1

****See image for Certificate of Correction****

TITLE: Mobile communication system

----- KWIC -----

Brief Summary Text - BSTX (6):

In the shown example, a system S1 comprises a mobile switching center MSC that includes a plurality of processors CPR1 to CPRn, and a plurality of radio base stations BSC1 to BSC5 subordinate to the processors.

Brief Summary Text - BSTX (36):

It is more preferable that when the radio base station determines a link number to return the mobile call response signal from a processor ID number, a certain law be imparted so that a load between signaling links can be shared of a series of subsequent signals from the radio base station.

Drawing Description Text - DRTX (12):

FIG. 10 is a flowchart obtained when the link number SLC is determined from the processor CPR number to achieve load sharing between signaling links in a call control part BCA within the radio base station BSC;

Detailed Description Text - DETX (8):

If a certain law, such as round robin scheduling for example, is herein imparted to a logic under which the link number SLC is selected by the call control part MCA within the mobile switching center MSC, it is possible to achieve a signaling link load sharing in the sending of the mobile call demand signal PAGE.

Detailed Description Text - DETX (9):

As a result, the radio base station BSC is capable of effecting the load sharing between all the subsequent signaling links due to the reason that will be described later.

Detailed Description Text - DETX (15):

In case of the ordinary SCCP control that is not based on the present invention, values 0 to 15 are used for the SLS in the round robin scheduling, due to the load sharing between the signaling links. This may possibly bring about sending to the signaling links other than the target signaling link in spite of use of the same processor. The present invention can avoid this.

Detailed Description Text - DETX (23):

Afterwards, the mobile switching center MSC sends an SCCP CC message to the radio base station BSC. In such a case, values 0 to 15 are used for the SLS in

the round robin scheduling, due to the load sharing between the signaling links within the processor CPR when a request for sending of the message is issued from the call control part MCA in the mobile switching center MSC to the SCCP. Such a respect falls under a known technique.

Detailed Description Text - DETX (28):

In such an event, as shown in FIG. 10 the load sharing between signaling links can be implemented by conferring a certain law such as the round robin scheduling for example when the link number SLC is determined from the processor (CPR) number in the call control part BCA within the radio base station BSC (step S300).

Claims Text - CLTX (6):

6. The mobile communication system according to claim 1, wherein when said radio base station determines a link number to return the mobile call response signal from a processor ID number, a certain law is imparted so that a load between signaling links can be shared of a series of subsequent signals from said radio base station.

Claims Text - CLTX (11):

11. The mobile communication system according to claim 7, wherein when the mobile switching center determines a signaling link number to send said mobile call request signal, a certain law is imparted so that a load between signaling links can be shared of a series of subsequent signals from said radio base station.